

14 SEER AIR CONDITIONING CHARGING PROCEDURE

- 1- UNITS ARE FACTORY CHARGED WITH R410A FOR 15 FEET OF LINE SET, AS MARKED ON THE NAMEPLATE.
- 2- ADD OR REMOVE 0.6 OZ FOR EVERY FOOT OF LINE SET DIFFERENT THAN 15 FEET.
- 3- CHECK FOR PROPER AIR FLOW AND RUN THE SYSTEM FOR 20-30 MINUTES BEFORE ADJUSTING CHARGE.
- 4- CHARGE THE SYSTEM BY WEIGHT IF AMBIENT TEMPERATURE IS BELOW 65°F.
- 5- CHARGE BY WEIGHT AND/OR FOLLOW THE VARIOUS METHODS LISTED BELOW IF AMBIENT TEMPERATURE IS ABOVE 65°F.

MODELS	18	24	30	36	41	42	47	48	60
TABLE 1 - SUBCOOLING METHOD (TXV SYSTEM) ± 1 °F									
<i>LIQUID LINE SATURATION TEMPERATURE MINUS LIQUID LINE TEMPERATURE</i>									
OUTDOOR TEMP (°F)									
65	6	3	6	7	7	7	6	8	7
75	6	3	6	7	7	7	6	8	7
85	6	3	6	7	7	7	6	8	7
95	6	3	6	8	7	7	6	8	7
105	10	3	7	9	7	7	6	8	8
115	10	4	8	10	8	7	6	8	8
TABLE 2 - APPROACH METHOD (TXV SYSTEM) ± 1 °F									
<i>LIQUID LINE TEMPERATURE MINUS OUTDOOR AMBIENT TEMPERATURE</i>									
TEMP (°F)	5	5	5	7	4	8	8	8	9
TABLE 3 - OPERATING PRESSURES (FOR REFERENCE)									
OUTDOOR TEMP (°F)	HIGH / LOW PRESSURES (PSI)								
65	232/124	210/122	229/128	241/131	233/142	248/135	233/139	250/126	244/125
75	267/131	240/127	261/132	277/136	256/143	285/141	272/141	300/134	281/131
85	307/136	300/142	305/138	321/141	299/145	327/145	315/142	350/135	324/136
95	351/143	350/142	349/142	366/145	343/146	372/149	361/144	380/148	370/141
105	400/148	400/147	396/146	416/149	389/148	421/152	413/145	420/149	418/145
115	457/153	450/150	449/150	480/152	452/151	476/154	465/148	490/150	471/147
TABLE 4 - SUPERHEAT METHOD (ORIFICE SYSTEM) ± 1 °F									
<i>SUCTION LINE SATURATION TEMPERATURE MINUS SUCTION LINE TEMPERATURE</i>									
OUTDOOR TEMP (°F)	65	70	75	80	85	90	95	100	105
SUPERHEAT (°F)	35	30	25	22	18	12	8	5	5

ALL MEASUREMENTS ARE AT THE SERVICE VALVES AND ARE BASED ON 80db/67wb INDOOR TEMPERATURE.

RFC SIZE	18	24	30	36	41	42	47	48	60
	0.053	0.057	0.065	0.071	0.074	0.076	0.080	0.083	0.093

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